

MINNESOTA TECHNICAL GUIDE SECTION III

Landuse Type Pastureland Resource Setting No. _____ MLRA 90 FIELD OFFICE _____

<p>Resource Setting: Owner objectives – increase and improve forage production in a grazing system. Soils-Fine sandy loams on gently sloping to nearly level slopes. Vegetation-Existing vegetation is overgrazed, low producing bluegrass with some quackgrass and weedy forbs. Resource concerns-Erosion and reduced upland bird habitat resulting from overgrazing. Also of concern is the impact on adjacent streams due to limited livestock water sources.</p>								
REFERENCE FROM CPPE AND RESOURCE CONSIDERATIONS								
Resource:	Soil	Water	Plants			Animals		
	Concen. Flow Erosion	Surface Contam. Nutr/Org.	Product.	Estab. Growth Harvest	Cover (Wildlife)	Water (livestock)	Food (wildlife) (livestock)	
	A-1-c	B-2-h	D-2-a	D-3-a	E-1-b	E-1-c	E-1-a	
RMS # 1 Practice # And Name:								
556-Plan Graze System	SLI+	MOD+	SIG+	SIG+	MOD+	MOD+	SIG+	
510-Past/Hay Mgmt.	SLI+	MOD+	SIG+	SIG+	MOD+	MOD+	SIG+	
645-Wildlife Upland Mgmt	SLI+	SLI+	SLI+	SLI+	SIG+	SIG+	SIG+	
378-Pond	0	SLI+	F	SLI+	SLI+	SIG+	MOD+	
590d-Nutrient Management	MOD+	SLI+	MOD+	SIG+	MOD+	0	MOD+	
516-Pipeline	F	F	F	F	F	F	F	
614-Trough	F	F	F	F	F	F	F	

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MINNESOTA TECHNICAL GUIDE SECTION III

Landuse Type Pastureland Resource Setting No. 2 MLRA 88 FIELD OFFICE _____

Resource Setting: Owner objectives – establishment and maintenance of high quality pasture and reduce the impact of the livestock on adjacent surface waters.
Soils-medium to fine textured imperfectly drained soils on nearly level slopes.
Vegetation-existing vegetation consists of low producing sedges, weeds, and bluegrass.
Resource concerns – overgrazing of forage resource, pollution of adjacent streams, and wetland areas.

REFERENCE FROM CPPE AND RESOURCE CONSIDERATIONS

Resource:	Soil	Water	Plants			Animals		
	Erosion/ Stream bank	Surface Contam. Nutr/Org.	Suitability	Product.	Estab. Growth Harvest	Food (livestock)	Cover and Shelter (wl)	Water (livestock)
	A-1-e	B-2-h	D-1-b	D-2-a	D-3-a	E-1-a	E-1-b	E-1-c
RMS # 1 Practice # And Name:								
510-Past/Hay Mgmt.	MOD+	MOD+	SIG+	SIG+	SIG+	SIG+	MOD+	SIG+
512-Past/Hay Planting	SIG+	SIG+	SIG+	SIG+	SIG+	SIG+	MOD+	SIG+
382-Fencing	F	F	F	F	F	F	F	F
515-Pipeline	F	F	F	F	F	F	F	F
614-Trough	F	F	F	F	F	F	F	F
556-Plan Graze Syst.	SIG+	MOD+	SIG+	SIG+	SIG+	SIG+	MOD+	MOD+
378-Pond	SIG+	MOD+	NA	F	F	SIG+	MOD+	SIG+
645-Wildlife Upland Management	SLI+	SLI+	SLI+	SLI+	SLI+	SLI+	SLI+	SLI+

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Landuse Type Pastureland Resource Setting No. 1 MLRA 57 FIELD OFFICE Mahnomen

Resource Setting: Soil Floodplain soils, frequently flooded. This is permanent pasture. Streambank erosion is occurring. Objectives are to maintain forage and increase diversity of wildlife.								
REFERENCE FROM CPPE AND RESOURCE CONSIDERATIONS								
Resource:	Soil	Water	Plants					
	Stream bank Erosion	Suspended Sediment	Plant Adapt.	Plant Suitability	Plant Product.	Plant Health	Plant Estab.	
	A-1-e	B-2-1	D-1-a	D-1-b	D-2-a	D-2-b	D-3-a	
RMS # 1 Practice # And Name:								
580-Streambank Prot.	SIG+	SIG+	SIG+	MOD+	NEG	NEG	NEG	
510-Past/Hay Mgmt.	SL+	SL+	NA	SIG+	SIG+	SIG+	SIG+	
512-Pasture/Hayland Plt.	SL+	SL+	SIG+	SIG+	SIG+	SIG+	SIG+	
472-Livestock Exclusion	SIG+	SIG+	NA	MOD+	MOD+	MOD+	SIG+	
393-Filter Strip	MOD+	SIG+	SIG+	SIG+	NEG	NEG	NA	
645-Wild Upland Habitat	SL+	SL+	SL+	SL+	SL+	SL+	SL+	
644-Wild Wetland Management	SL+	SL+	SL+	SL+	SL+	SL+	SL+	
556-Planned Graze. Sys.	MOD+	MOD+	SIG+	MOD+	MOD+	MOD+	MOD+	

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MINNESOTA TECHNICAL GUIDE SECTION III

Landuse Type Pastureland Resource Setting No. 1 MLRA 57 FIELD OFFICE Mahnomen

Resource Setting:								
REFERENCE FROM CPPE AND RESOURCE CONSIDERATIONS								
Resource:	Animal (Wildlife)			(livestock)				
	Food	Cover	Population	Food	Cover	Population		
	E-1-a	E-1-b	E-2-a	E-1-a	E-1-b	E-2-a		
RMS # 1 Practice # And Name:								
580-Streambank Prot.	MOD+	MOD+	MOD+	MOD+	NEG	NA		
510-Past/Hay Mgmt.	MOD+	MOD+	SIG+	SIG+	SL+	SIG+		
512-Pasture/Hayland Plt.	MOD+	MOD+	SIG+	SIG+	SL+	SIG+		
472-Livestock Exclusion	MOD+	MOD+	MOD+	NEG	NEG	SL-		
393-Filter Strip	MOD+	MOD+	ST+	NA	NA	NA		
645-Wild Upland Habitat	SIG+	SIG+	MOD+	NA	NA	NA		
644-Wild Wetland Management	SIG+	SIG+	MOD+	NA	NA	NA		
556-Planned Graze. Sys.	MOD+	MOD+	MOD+	SIG+	SIG+	SIG+		

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MINNESOTA TECHNICAL GUIDE SECTION III

Landuse Type Pasture Resource Setting No. 2 MLRA 56 FIELD OFFICE Red Lake Falls

Resource Setting: Major soil type: Fine Sandy Loam, "T" values 86 to 134, "T" = 5 t/ac/yr, Slope Range: 0-2%. Vegetation Predominately cool season grasses with woody vegetation in the low areas. Pasture condition considered POOR. Producers objectives: Increase Pasture Condition from Poor to Good. This area will be managed for wildlife.

REFERENCE FROM CPPE AND RESOURCE CONSIDERATIONS

Resource: PASTURE	Water	Plants						
	Surface Contams. Nuts. And Organic	Suitability	Production	Health & vigor	Estab. Growth & Harvest	Nutrient Manage.		
RMS # 2 Practice # And Name:	B-2-h	D-1-b	D-2-a	D-2-b	D-3-a	D-3-b		
556-Plan Graze System	MOD+	MOD+	SIG+	MOD+	SIG+	SIG+		
382-Fencing	F	F	F	F	F	F		
642-Well	MOD+	SLI+	SIG+	SIG+	SIG+	SIG+		
510-Pasture & Hayland Mgmt.	MOD+	MOD+	SIG+	SIG+	SIG+	SIG+		
614-Through and Tank 516-Pipeline	F F	F F	F F	F F	F F	F F		
645-Upland Wildlife Mgmt	MOD+	NEG	NEG	SLI+	NEG	SLI+		

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Landuse Type Pasture Resource Setting No. 2 MLRA 56 FIELD OFFICE Red Lake Falls

Resource Setting: Major soil type: Fine Sandy Loam, "T" values 86 to 134, "T" = 5 t/ac/yr, Slope Range: 0-2%. Vegetation Predominately cool season grasses with woody vegetation in the low areas. Pasture condition considered POOR. Producers objectives: Increase Pasture Condition from Poor to Good. Approximately 20 acres in Northwest corner is dominated by woods. This area will be managed for wildlife.

REFERENCE FROM CPPE AND RESOURCE CONSIDERATIONS

Resource: PASTURE	Animals					Wildlife		
	Food	Habitat Cover & Shelter	Management Population Resource/ Balance					
RMS # 2 Practice # And Name:	E-1-a	E-1-b	E-2-a	E-1-a	E-1-b	E-2-a		
556-Plan Graze System	SIG+	SIG+	SIG+	MOD+	MOD+	SL+		
382-Fencing	F	F	F	F	F	F		
642-Well	SIG+	SIG+	SIG+	NEG 0	NEG 0	NEG 0		
510-Pasture & Hayland Mgmt.	MOD+	SLI+	MOD+	MOD+	MOD+	SL+		
614-Through and Tank 516-Pipeline	F F	F F	F F	F F	F F	F F		
645-Upland Wildlife Mgmt	SL+	SL+	SL+	SIG+	SIG+	SIG+		

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Landuse Type Pasture Resource Setting No. 1 MLRA 102a FIELD OFFICE _____

Resource Setting: This will be a cool season (smooth brome) pasture. The area has wet bottoms and steep upland slopes. This area is along a river where there is streambank erosion. There is an absentee landowner. Fencing is poor and the area hasn't been grazed for several years and patches of brush need control in this area.								
REFERENCE FROM CPPE AND RESOURCE CONSIDERATIONS								
Resource:	Soil		Water			Plants		Animals (Wild)
	Streambank Erosion	Compaction	Runoff/Flooding	Surface Contamin. Nutrients	Surface Contamin. Pathogens	Productive	Pest Management	Habitat – Cover or Shelter
	A-1-e	A-2-b	B-1-b	B-2-h	B-2-n	D-2-a	D-3-c	E-1-b
RMS # 1 Practice # And Name:								
314m-Brush Management	0	0	SLT+	0	0	SIG+	SIG+	MOD-
382-Fencing	F	F	F	F	F	F	F	F
556-Planned Grazing Sys.	MOD+	NEG	SLT+	SLT+	NEG	MOD+	MOD+	SLT+
510-Pasture/Hayland Mgmt	SLI+	MOD+	SLI+	SLI+	SLI+	SIG+	SIG+	SLT+
378-Pond	0	0	0	MOD-	MOD-	MOD+	0	SLT-
580-Streambank Protect	SIG+	0	SLI+	SLI+	0	0	0	MOD+
645-Wildlife Upland Management	NEG	MOD+	SLT+	MOD+	SLT+	MOD+	MOD+	SIG+

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MINNESOTA TECHNICAL GUIDE SECTION III

Landuse Type Pasture Resource Setting No. 1 MLRA 102a FIELD OFFICE _____

Resource Setting: This will be a cool season (smooth brome) pasture. The area has wet bottoms and steep upland slopes. This area is along a river where there is streambank erosion. There is an absentee landowner. Fencing is poor and the area hasn't been grazed for several years and patches of brush need control in this area.

REFERENCE FROM CPPE AND RESOURCE CONSIDERATIONS

Resource:	Animals (Livestock)							
	Habitat Water	Population/ Balance						
	E-1-c	E-2-a						
RMS # 1 Practice # And Name:								
314m-Brush Management	SLT-	MOD+						
382-Fencing	F	F						
556-Planned Grazing Sys.	MOD+	MOD+						
510-Pasture/Hayland Mgmt	MOD+	MOD+						
378-Pond	SIG+	SIG+						
580-Streambank Protect	NEG	NEG						
645-Wildlife Upland Management	NEG	NEG						

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MINNESOTA TECHNICAL GUIDE SECTION III

Landuse Type Pastureland Resource Setting No. 1 MLRA 105 FIELD OFFICE _____

Resource Setting: A severely overgrazed bluegrass pasture with low production of 1 – 2 AUM's per acre, with moderate to severe broadleaf competition. Gullies are encroaching from the woodland with annual soil loss to gully head encroachment at 50 tons per year. The pasture is located on steep uplands sites on blackhammer – Southridge soil types with land slopes 16-22%. This area is between the cropland further upland and the woodland further down the hill. Water availability for cattle is limited and usually only available from constructed farm ponds. The fences are in poor condition. The landowners objectives are to increase the amount of available forage and make the forage available for a longer period of time throughout the growing season, and make water available for better grazing distribution..

REFERENCE FROM CPPE AND RESOURCE CONSIDERATIONS

Resource:	Soil			Water		Plants		
	Classic Gully	Compaction	Offsite/ Damage	Surface Turbidity	Suitability	Productive	Health & Vigor	
	A-1-d	A-2-b	A-3-b	B-2-i	D-1-b	D-2-a	D-2-b	
RMS # 2 Practice # And Name:								
382-Fencing	FAC	FAC	FAC	FAC	FAC	FAC	FAC	
378-Pond	SIG+	0	SLI+	0	N/A	SIG+	SIG+	
510-Pasture Mgmt	MOD+	SIG+	SLI+	SLI+	SIG	SIG+	SIG+	
566-Planned Grazing	MOD+	SLI+	SLI+	MOD+	MOD+	MOD+	MOD+	
645-Upland Wildlife Mgmt	SLI+	MOD+	SLI+	MOD+	MOD+	MOD+	SIG+	
680a-Nutrient Management	SLI+	SLI+	SLI+	0	0	SIG+	SIG+	
685m-Pest Management	0	0	0	0	0	SLI+	SLI+	

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REFERENCE FROM CPPE AND RESOURCE CONSIDERATIONS

Resource:	Plants			Animals				
	Growth & Harvest	Nutrient Management	Pest Management	Food	Water			
	D-3-a	D-3-b	D-3-c	E-1-a	E-1-c			
RMS # 2 Practice # And Name:								
382-Fencing	FAC	FAC	FAC	FAC	FAC			
378-Pond	SIG+	NA	0	MOD+	MOD+			
510-Pasture Management	SIG+	SIG+	SIG+	SIG+	SLI+			
566-Planned Grazing	MOD+	MOD+	MOD+	0	0			
645-Upland Wildlife Mgmt	SIG+	MOD+	SLI+	SIG+	0			
680a-Nutrient Management	SIG+	MOD+	SLI+	SIG+	0			
685m-Pest Management	SIG+	NA	SIG+	MOD+	SLI+			

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REFERENCE FROM CPPE AND RESOURCE CONSIDERATIONS

Resource:	Soil			Plants	Animals			
	Classic Gully	Compaction	Offsite Damage	Surface Turbidity	Suitability	Production		
	A-1-d	A-2-b	A-3-b	B-2-i	D-1-b	D-2-a		
RMS # 1 Practice # And Name:								
362-Diversion	MOD+	0	SLI+	SLI+	NA	0		
410-Grade Stabilizer	SIG+	0	MOD+	SIG+	NA	NA		
510-Pasture/Hayland Mgmt	MOD+	SIG+	SLI+	SLI+	SIG+	SIG+		
512-Pasture Planting	MOD+	SIG+	SLI+	SLI+	SIG+	SIG+		
645-Upland Wildlife Mgmt	SLI+	MOD+	SLI+	MOD+	MOD+	MOD+		
680a-Nutrient Management	SLI+	SLI+	SLI+	0	0	SIG+		
685c-Pest Management	0	0	0	0	NA	SLI+		

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REFERENCE FROM CPPE AND RESOURCE CONSIDERATIONS

Resource:	Plants				Animals			
	Health & Vigor	Growth & Harvest	Nutrient Management	Pest Management	Food	Water		
	D-2-b	D-3-a	D-3-b	D-3-c	E-1-a	E-1-c		
362-Diversion	0	0	NA	SLI+	SLI+	SIG+		
410-Grade Stabilizer	0	0	0	0	0	0		
510-Pasture/Hayland Mgmt	SIG+	SIG+	SIG+	SIG+	SIG+	SLI+		
512-Pasture Planting	SIG+	SIG+	SIG+	SIG+	SIG+	SLI+		
645-Upland Wildlife Mgmt	MOD+	MOD+	MOD+	MOD+	SIG+	SIG+		
680a-Nutrient Management	SIG+	SIG+	MOD+	SLI+	SIG+	0		
685-Pest Management	SLI+	SIG+	NA	SIG+	MOD+	SLI+		

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Conservation Management System Options Worksheet

RESOURCE: Pasture MLRA 105 Setting # 1									
Considerations		Soil			Water		Plants		
CMS Options	Resource Problems	Classic Gully	Compaction	Offsite Damage	Surface Turbid	Suitability	Productit		
		A-1-d	A-2-b	A-3-b	B-1-i	D-1-b	D-2-a		
362-Diversion		MOD+	MOD+	0	0	NA	0		
410-Grade Stabilizer		SIG+	0	MOD+	NA	0	0		
510-Pasture Management		MOD+	SIG+	SLI+	SLI+	SIG+	SIG+		
512-Pasture Planting		MOD+	SIG+	SLI+	MOD+	SIG+	SIG+		
645-Upland Wildlife Mgmt.		SLI+	MOD+	SLI+	MOD+	MOD+	MOD+		
680-Nutrient Management		SLI+	SLI+	SLI+	0	0	SIG+		
685c-Pest Management		0	0	0	0	NA	SLI+		

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Conservation Management System Options Worksheet

RESOURCE: Pasture MRLA 105 Setting # 1									
Considerations		Plants				Animals			
CMS Options	Resource Problems	Health Vigor & Growth	Estab. & Growth	Nutrient Management	Pest Management	Food	Water		
		D-2-b	D-3-a	D-3-b	D-3-c	E-1-a	E-1-c		
362-Diversion		0	0	NA	SLI+	SLI+	SIG+		
410-Grade		0	0	0	0	0	0		
510-Pasture Management		SIG+	SIG+	SIG+	SIG+	SIG+	SLI+		
512-Pasture Planting		SIG+	SIG+	SIG+	SIG+	SIG+	SLI+		
645-Upland Wildlife Mgmt		MOD+	MOD+	MOD+	MOD+	SIG+	SIG+		
680a-Nutrient Management		SIG+	SIG+	MOD+	SLI+	SIG+	0		
685c-Pest Management		SLI+	SIG+	NA	SIG+	MOD+	SLI+		

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Conservation Management System Options Worksheet

RESOURCE: Pasture MRLA 105 Setting # 1									
Considerations	Soil			Water	Plant				
Resource Problems	Classic Gully	Compaction	Offsite Damage	Surface Turbid	Suitability	Productit.			
Practices	A-1-d	A-2-b	A-3-b	B-2-i	D-1-b	D-2-a			
362-Diversion	MOD+	MOD+	0	0	NA	0			
378-Pond	SIG+	0	SLI+	0	NA	SIG+			
352-Deferred Grazing	0	0	0	MOD+	MOD+	MOD+			
382-Fencing	FAC	FAC	FAC	FAC	FAC	FAC			
410-Grade Stabilizer	SIG+	0	MOD+	SIG+	0	0			
412-Grassed Waterway	SIG+	0	SLI+	SLI+	SLI+	SLI+			
510-Pasture Management	MOD+	SIG+	SLI+	SLI+	SIG+	SIG+			
512-Pasture Planting	MOD+	SIG+	SLI+	MOD+	SIG+	SIG+			
528-Proper Grazing	MOD+	MOD+	SLI+	MOD+	MOD+	MOD+			
556-Planned Grazing	MOD+	SLI+	SLI+	MOD+	MOD+	MOD+			
645-Upland Wildlife Mgmt.	SLI+	MOD+	SLI+	MOD+	MOD+	MOD+			
680a-Nutrient Management	SLI+	SLI+	SLI+	0	0	SIG+			
685c-Pest Management	0	0	0	0	NA	SLI+			
685m-Pest Management	0	0	0	0	NA	SLI+			

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Conservation Management System Options Worksheet

RESOURCE: Pasture MRLA 105 Setting # 1									
Considerations		Plant					Animals		
	Resource Problems	Health Vigor & Growth D-2-b	Estab. & Growth D-3-a	Nutrient Management D-3-b	Pest Management D-3-c	Food E-1-a	Water E-1-c		
CMS Options									
362-Diversion		0	0	NA	SLI+	SLI+	SIG+		
378-Pond		SIG+	SIG+	NA	0	MOD+	MOD+		
352-Deferred Grazing		MOD+	MOD+	NA	SLI+	MOD+	MOD+		
382-Fencing		MOD+	MOD+	NA	FAC	FAC	FAC		
410-Grade Stabilizer		0	0	0	0	0	0		
412-Grassed Waterway		SLI+	SLI+	NA	0	0	0		
510-Pasture Management		SIG+	SIG+	SIG+	SIG+	SIG+	SLI+		
512-Pasture Planting		SIG+	SIG+	SIG+	SIG+	SIG+	SLI+		
528-Proper Grazing		MOD+	SLI+	NA	SLI+	SIG+	MOD+		
556-Planned Grazing		MOD+	MOD+	MOD+	MOD+	0	0		
645-Upland Wildlife Mgmt.		MOD+	MOD+	MOD+	MOD+	SIG+	SIG+		
680a-Nutrient Management		SIG+	SIG+	MOD+	SLI+	SIG+	0		
685c-Pest Management		SLI+	SIG+	NA	SIG+	MOD+	SLI+		
685m-Pest Management		SLI+	SIG+	NA	SIG+	MOD+	SLI+		

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Landuse Type Pastureland Resource Setting No. _____ MLRA 90 FIELD OFFICE _____

Resource Setting: Owner objectives – production of adequate, quality forage for 40 to 60 cow dairy herd while minimizing sedimentation and nutrient pollution of nearby streams and lakes
Soils – loams and silt loams on 6 to 12% slopes.
Vegetation – Existing vegetation consists of low producing grass species with weeds becoming a major problem for grazing.
Resource concerns – livestock impacts on streams and lakes.

REFERENCE FROM CPPE AND RESOURCE CONSIDERATIONS

Resource:	Plants					Animals		
	Suitability	Product.	Estab. Growth Harvest	Nutrient Management		Food (wildlife)	Cover and Shelter (wildlife)	
	D-1-b	D-2-a	D-3-a	D-3-b		E-1-a	E-1-b	
RMS # 1 Practice # And Name:								
510-Past/Hay Management	SIG+	SIG+	SIG+	SIG+		MOD+	SIG+	
556-Planned Graze Syst.	SIG+	SIG+	SIG+	MOD+		MOD+	MOD+	
512-Past/Hay Planting	SIG+	SIG+	SIG+	SIG+		SIG+	SIG+	
472-Livestock Exclusion	MOD+	MOD+	SIG+	NA		SIG+	SIG+	
382-Fence	F	F	F	F		F	F	
590d-Nutrient Management	0	SIG+	SIG+	SIG+		MOD+	MOD+	
378-Pond	NA	F	F	NA		MOD+	MOD+	
645-Wildlife Upland Mgmt	SLI+	SLI+	SLI+	SLI+		SIG+	SIG+	

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Resource Setting: Owner objectives – production of adequate, quality forage for 40 to 60 cow dairy herd while minimizing sedimentation and nutrient pollution of nearby streams and lakes
Soils – loams and silt loams on 6 to 12% slopes.
Vegetation – Existing vegetation consists of low producing grass species with weeds becoming a major problem for grazing.
Resource concerns – livestock impacts on streams and lakes.

REFERENCE FROM CPPE AND RESOURCE CONSIDERATIONS

Resource:	Soil		Water					
	Erosion Streambank		Surface Contam. Nutr/Org.	Surface Contam. Turbidity	Surface Contam. Dissolve O2	Surface Contam. Temperature	Aquatic Habitat Suitability	
	A-1-e		B-2-h	B-2-i	B-2-j	B-2-m	B-2-o	
RMS # 1 Practice # And Name:								
510-Past/Hay Management	MOD+		MOD+	MOD+	MOD+	SLI+	SLI+	
556-Planned Graze Syst.	SIG+		MOD+	SIG+	MOD+	0	SLI+	
512-Past/Hay Planting	MOD+		MOD+	MOD+	MOD+	0	SLI+	
472-Livestock Exclusion	SIG+		MOD+	SIG+	MOD+	MOD+	MOD+	
382-Fence	F		F	F	F	F	F	
590d-Nutrient Management	0		SLI+	0	SLI+	0	SLI+	
378-Pond	SIG+		0	0	0	0	SLI+	
645-Wildlife Upland Mgmt	SLI+		SLI+	SLI+	SLI+	SLI+	SLI+	

Developed By/Date _____ AO Concurrence/Date _____ SO Concurrence/Date _____